

DERWENT- 1986-058371  
ACC-NO:

DERWENT- 198609  
WEEK:

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TITLE: Urethane! and acrylate! or methacrylate! resin - prepd. by  
reacting organic di :isocyanate with acrylate and/or  
methacrylate!

PATENT-ASSIGNEE: MITSUBISHI RAYON CO LTD[MITR]

PRIORITY-DATA: 1984JP-0130007 (June 26, 1984)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 61009424	A January 17, 1986	N/A	003	N/A

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 61009424A	N/A	1984JP-0130007	June 26, 1984

INT-CL (IPC): C08F299/06, C08G018/67

ABSTRACTED-PUB-NO: JP 61009424A

**BASIC-ABSTRACT:**

Urethane (meth)acrylate resin is obtd. by reacting glycerin mono(meth)acrylate with organic diisocyanate and reacting thus obtd. isocyanate cpd. with hydroxy-contg. (meth)acrylate.

1 mol glycerin mono(meth)acrylate obtd. from glycidol and (meth)acrylic acid is reacted with 1.5-2.5 mols organic diisocyanate such as hexamethylene diisocyanate, trimethylhexamethylene diisocyanate, cyclohexane diisocyanate or isophorone diisocyanate. Thus obtd. -cpd isocyanate cpd. is reacted with hydroxy-contg. (meth)acrylate such as 2-hydroxyethyl(propyl, butyl) (meth)acrylate,

4-hydroxybutyl (meth)acrylate or addn. prod. of (meth)acrylic acid and monoglycidylether to obtain urethane (meth)acrylate resin. Quantity of hydroxy-contg. (meth)acrylate used is 1-2 mols to 1 mol isocyanate gp. Urethane (meth)acrylate resin is cured in the presence of polymerisation initiator such as benzoyl peroxide or 2,2'-azobisisobutyronitrile.

ADVANTAGE - Urethane (meth)acrylate resin is cured to obtain cured prod. having excellent surface hardness, strength and elongation.

CHOSEN- Dwg.0/0

DRAWING:

TITLE- POLYURETHANE POLYACRYLATE POLYMETHACRYLATE RESIN  
TERMS: PREPARATION REACT ORGANIC DI ISOCYANATE ACRYLATE  
POLYMETHACRYLATE

DERWENT-CLASS: A14 A25

CPI-CODES: A05-G04; A10-E24; A11-C02;

UNLINKED-DERWENT-REGISTRY-NUMBERS: ; 0415U ; 0426U ; 0610U

**POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:**

Key	0037 0151 0226 1300 1329 1758 1760 1770 3132 1774 2020
Serials:	2021 2022 2041 2064 2065 2152 2198 2206 2207 2288 2291
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	473 53& 551 560 561 563 566 567 570 573 575 58- 596 689
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SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-024632